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MAY 20 2003  
PATENT & TRADEMARK OFFICE

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.  010254	SERIAL NO.  09/993,087
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Walton et al.	
				FILING DATE 11/06/2001	GROUP 2681 2686
DATE MAILED: May 16, 2003					

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	A1						
	A2						
	A3						
	A4						
	A5						
	A6						
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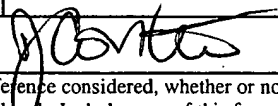
MAY 22 2003

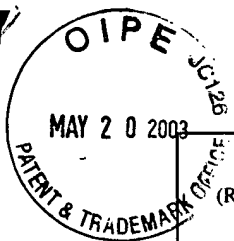
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FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
JK	B1	0 1 7 1 9 2 8 A2	09/27/2001	WO	QUALCOMM INCORPORATED		
JK	B2	0 1 7 6 1 1 0 A2	10/11/2001	WO	QUALCOMM INCORPORATED		
	B3						
	B4						
	B5						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

	C1	
	C2	
	C3	
EXAMINER		
DATE CONSIDERED	9/29/04	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		



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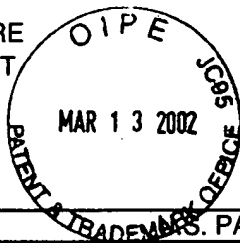
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		010254	09/993,087
DATE MAILED: 02/26/2002		APPLICANT Walton et al.	COPY OF PAPERS ORIGINALLY FILED
		FILING DATE 11/06/2001	GROUP 2681 <i>LC</i>



EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
<i>[Signature]</i>	A1	5,799,005	08/25/1998	SOLIMAN			
<i>[Signature]</i>	A2	5,903,554	05/11/1999	SAINTS			
<i>[Signature]</i>	A3	5,056,109	10/08/1991	GILHOUSEN ET AL.			
<i>[Signature]</i>	A4	5,265,119	11/23/1993	GILHOUSEN ET AL.			
<i>[Signature]</i>	A5	6,097,972	08/01/2000	SAINTS ET AL.			

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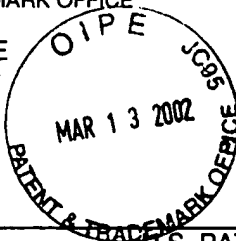
EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS	SUB CLASS
<i>[Signature]</i>	B1	0951091A2	10/20/1999	EP	LUCENT (US)		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

<i>[Signature]</i>	C1	P.W. Wolniansky et al., "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel," IEEE-1998 (pgs. 295-300)
<i>[Signature]</i>	C2	Sirkiat Leg Ariyavisitakul et al., "Optimum Space-Time Processors with Dispersive Interference: Unified Analysis and Required Filter Span," IEEE Trans. On Comm., Vol. 47, No. 7, July 1999 (pgs. 1073 - 1083).
<i>[Signature]</i>	C3	John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," IEEE Communications Magazine, May 1990 (pgs. 5-14).
<i>[Signature]</i>	C4	Fuyun Ling, "Optimal Reception, Performance Bound, and Cutoff Rat Analysis of References-Assisted Coherent CDMA Communications with Applications," IEEE Transactions on Communications, Vol. 47, No. 10, October 1999 (pgs. 1583 -1592).
<i>[Signature]</i>	C5	Bjoern Ottersten, "Array Processing for Wireless Communications," IEEE 1996 (pgs. 466 - 473).

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		11/06/2001	2681



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